

Thorium Research Facility

linking sustainable infrastructure and resources



July 2018

Certificate of Establishment



OFFICE OF THE LIEUTENANT GOVERNOR

CERTIFICATE OF EXPANSION AND ESTABLISHMENT

I, SPENCER J. COX, LIEUTENANT GOVERNOR OF THE STATE OF UTAH, HEREBY CERTIFY THAT there has been filed in my office a notice of expansion and establishment of the SEVEN COUNTY INFRASTRUCTURE COALITION as an interlocal entity, dated December 1st, 2016 in substantial compliance with Title 11, Chapter 13 of Utah Code Annotated, 1953, as amended.

NOW, THEREFORE, notice is hereby given to all whom it may concern that the attached is a true and correct copy of the notice of expansion and establishment, referred to above, on file with the Office of the Lieutenant Governor pertaining to the SEVEN COUNTY INFRASTRUCTURE COALITION, consisting of the counties of Carbon, Daggett, Duchesne, Emery, San Juan, Sevier and Uintah.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the Great Seal of the State of Utah at Salt Lake City, this 16th day of February, 2017.

A handwritten signature in black ink, appearing to read "Spencer J. Cox".

SPENCER J. COX
Lieutenant Governor



Examples of Research Equipment



Figure 1 Perkin Elmer NexION2000



Figure 2 Netzsch STA 44 F5 Jupiter



Figure 3 STA coupled with a mass spectrometer

Examples of Research Equipment



Figure 4 Anton-Parr MCR 502 Rheometer



Figure 5 Anton-arr FRS 1600

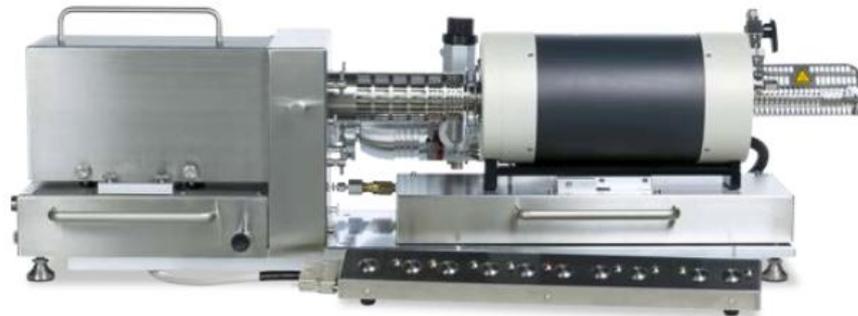


Figure 7 Glovebo capable dilatometer

Budget

➤ Research equipment	\$6,824,950.44
➤ Building / Remodel	\$1,000,000.00
➤ Safety Manual / Personnel	<u>\$2,175,049.56</u>
Total Appropriation Request:	\$10,000,000.00
Federal Grant Request:	\$3,000,000.00

* Identified opportunities for donations, none confirmed

Benefits of Government Research Lab

- Neutral, unaffiliated, available to all
- Rural location (not in metropolitan area)
- Independent lab ensures IP protection
- No priority to any institution
- 6 to 12 initial research facility jobs
- Potential Utah jobs, mostly rural,
in Thorium industry = 4,000 to 8,000